

CLAIMS

1. A communication system, comprising a first access router belonging to a first subnet and a second access router belonging to a second subnet, said first access router and said second access router being connected via IP network, and a mobile terminal is connected to said first subnet and said second subnet via radio communication, wherein:
 - 10 the mobile terminal connected to said first subnet requests a link local address of said second access router in said second subnet to said first access router under the condition being connected to said first subnet after deciding that handover to said second subnet is to be executed, and said first access router provides said link local address of said second access router to said mobile terminal.
2. A communication system, comprising a first access router belonging to a first subnet and a second access router belonging to a second subnet, said first access router and said second access router being connected via IP network, and a mobile terminal is connected to said first subnet and said second subnet via radio communication, wherein:

the mobile terminal connected to said first subnet requests a link local address of a default router in said second subnet to said first access router under the condition being connected to said first subnet after 5 deciding that handover is to be executed to said second subnet, and said first access router provides said link local address of said default router to said mobile terminal.

10 3. The communication system according to claim 1, wherein said first access router provides information included in an RA message sent within said second subnet by said second access router together with said link local address of said second access router to said 15 mobile terminal.

4. The communication system according to claim 2, wherein said first access router provides information included in an RA message sent within said second subnet 20 by said default router together with said link local address of said default router to said mobile terminal.

5. The communication system according to claim 1 or 2, wherein said mobile terminal refers to said link local 25 address when packet transmission is performed to outside

of said second subnet after handover is executed from said first subnet to said second subnet.

6. The communication system according to claim 1 or 2,
 - 5 wherein said mobile terminal requests said link local address to said first access router when transmitting a message P to request information relating to said second access router.
- 10 7. The communication system according to claim 6,
 - wherein said mobile terminal is arranged to add information to instruct a request of said link local address in said message P, said first access router acquires said link local address relating to a subnet
 - 15 specified by information in said message P and transmits a message Q including said link local address to said mobile terminal by incorporating said link local address in the message Q, which is a response message of said message P.
- 20 8. The communication system according to claim 6,
 - wherein said mobile terminal is arranged to transmit information to request said link local address different from said message P to said first access router, said first access router is arranged to acquire said link

local address relating to a subnet specified by at least one of information to request said link local address and information in said message P received from said mobile terminal and transmits a notifying message

5 including said link local address to said mobile terminal by incorporating said link local address in a notifying message different form the message Q, which is a response message of said message P.

10 9. The communication system according to claim 6, wherein said mobile terminal is arranged to add information to instruct a request of said link local address in said message P, and said first access router acquires said link local address relating to a subnet 15 specified by at least one of information to request said link local address and information in said message P received from said mobile terminal and transmits a notifying message including said link local address to said mobile terminal by incorporating said link local 20 address in a notifying message different from a message Q, which is a response message of said message P.

10. The communication system according to claim 6, wherein said mobile terminal is arranged to transmit 25 information to request said link local address different

from said message P to said first access router, and
said first access router acquires said link local
address relating to a subnet specified by information in
said message P and transmits said message Q including
5 said link local address to said mobile terminal by
incorporating said link local address in the message Q,
which is a response message of said message P.

11. The communication system according to claim 1 or 2,
10 wherein said first access router acquires said link
local address relating to a subnet specified by
information in said message when a message P to request
information relating to said second access router is
received from said mobile terminal and transmits said
15 message Q including said link local address to said
mobile terminal by incorporating said link local address
in a message Q, which is a response message of said
message P.

20 12. The communication system according to claim 1 or 2,
wherein said first access router acquires said link
local address relating to a subnet specified by
information in said message P when said message P is
received from said mobile terminal, acquires said link
25 local address and transmits a notifying message

including said link local address to said mobile terminal by incorporating said link local address in a notifying message different from a message Q, which is a response message of said message P.

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13. The communication system according to claim 1 or 2, wherein said mobile terminal is arranged to request said link local address to said first access router when transmitting a message R to request to forward a packet 10 addressed to said mobile terminal to said second access router.

14. The communication system according to claim 13, wherein said mobile terminal is arranged to add 15 information to request said link local address in said message R, said first access router acquires said link local address relating to a subnet specified by at least one of information in said message R, a message P to request information relating to said second access 20 router, and information in said message P received from said mobile terminal already before the receiving of said message R and transmits said message S including said link local address to said mobile terminal by incorporating said link local address in a message S, 25 which is a response message of said message R.

15. The communication system according to claim 13,
wherein said mobile terminal is arranged to transmit
information to request said link local address different
5 from said message R to said first access router, said
first access router acquires said link local address
relating to a subnet specified by at least one of
information to request said link local address,
information in said message R received from said mobile
10 terminal, a message P to request information relating to
said second access router, and information in said
message P received from said mobile terminal already
before the receiving of said message R, and transmits a
notifying message including said link local address to
15 said mobile terminal by incorporating said link local
address in a notifying message different from the
message S, which is a response message of said message R.

16. The communication system according to claim 13,
20 wherein said mobile terminal is arranged to add
information to request said link local address in said
message R, and said first access router acquires said
link local address relating to a subnet specified by at
least one of information to request said link local
25 address, information in said message R received from

said mobile terminal, a message P to request information relating to said second access router, and information in said message P received from said mobile terminal already before the receiving of said message R, and
5 transmits a notifying message including said link local address to said mobile terminal by incorporating said link local address in a notifying message different from the message S, which is a response message of said message R.

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17. The communication system according to claim 13, wherein said mobile terminal is arranged to transmit information to request said link local address different from said message to said first access router, and said
15 first access router acquires said link local address relating to a subnet specified by at least one of information in said message R, information of the message P to request information relating to said second access router, and information in said message P
20 received from said mobile terminal already before the receiving of said message R, and transmits said message S including said link local address to said mobile terminal by incorporating said link local address in the message S, which is a response message of said message R.

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18. The communication system according to claim 1 or 2,
wherein said first access router acquires, when said
message R is received from said mobile terminal, said
link local address relating to a subnet specified by at
5 least one of information in said message R, a message P
to request information relating to said second access
router, and information in said message P received from
said mobile terminal already before the receiving of
said message R, and transmits said message S including
10 said link local address to said mobile terminal by
incorporating said link local address in a message S,
which is a response message of said message R.

19. The communication system according to claim 1 or 2,
15 wherein said first access router acquires, when said
message R is received from said mobile terminal, said
link local address relating to a subnet specified by at
least one of information in said message R, information
in the message P to request information relating to said
20 second access router, and information in said message P
received from said mobile terminal already before the
receiving of said message R, and transmits a notifying
message including said link local address to said mobile
terminal by incorporating said link local address to a
25 notifying message different from a message S, which is a

response message of said message R.

20. The communication system according to claim 16,
wherein said first access router is arranged to request
5 said link local address to said second access router
when transmitting a message T to request the initiation
of processing of the handover relating to said mobile
terminal.
- 10 21. The communication system according to claim 17,
wherein said first access router is arranged to request
said link local address to said second access router
when transmitting a message T to request the initiation
of processing of the handover relating to said mobile
15 terminal.
22. The communication system according to claim 20,
wherein said first access router is arranged to add
information to request said link local address in said
20 message T, and said second access router acquires said
link local address relating to said second subnet, to
which said second access router belongs, and transmits
said message U including said link local address to said
first access router by incorporating said link local
25 message in the message U, which is a response message of

said message T.

23. The communication system according to claim 20,
wherein said first access router is arranged to transmit
5 information to request said link local address different
from said message T to said second access router, said
second access router acquires said link local address
relating to said second subnet, to which said second
access route belongs, and transmits a notifying message
10 including said link local address to said first access
router by incorporating said link local address in a
notifying message different from a message U, which is a
response message of said message T.
- 15 24. The communication system according to claim 20,
wherein said first access router is arranged to add
information to request said link local address in said
message T, and said second access router acquires said
link local address relating to said second subnet, to
20 which said second access router belongs, and transmits a
notifying message including said link local address to
said first access router by incorporating said link
local address in a notifying message different from the
message U, which is a response message of said message T.

25. The communication system according to claim 20,
wherein said first access router is arranged to transmit
information to request said link local address different
from said message T to said second access router, and
5 said second access router acquires said link local
address relating to said second subnet, to which said
second access router belongs, and transmits said message
U including said link local address to said first access
router by incorporating said link local address in the
10 message U, which is a response message of said message T.

26. The communication system according to claim 16,
wherein said second access router acquires, when said
message T is received from said first access router,
15 said link local address relating to said second subnet,
to which said second access router belongs, and
transmits said message including said link local address
to said first access router by incorporating said link
local address in the message U, which is a response
20 message of said message T.

27. The communication system according to claim 17,
wherein said second access router acquires, when said
message T is received from said first access router,
25 said link local address relating to said second subnet,

to which said second access router belongs, and
transmits said message including said link local address
to said first access router by incorporating said link
local address in the message U, which is a response
5 message of said message T.

28. The communication system according to claim 16,
wherein said second access router acquires, when said
message T is received from said first access router,
10 said link local address relating to said second subnet,
to which said second access router belongs, and
transmits a notifying message including said link local
address to said first access router by incorporating
said link local address in a notifying message different
15 from the message U, which is a response message of said
message T.

29. The communication system according to claim 17,
wherein said second access router acquires, when said
20 message T is received from said first access router,
said link local address relating to said second subnet,
to which said second access router belongs, and
transmits a notifying message including said link local
address to said first access router by incorporating
25 said link local address in a notifying message different

from the message U, which is a response message of said message T.

30. A communication system, comprising a first access
5 router belonging to a first subnet and a second access router belonging to a second subnet, said first access router and said second access router being connected via IP network, and a mobile terminal is connected to said first subnet and said second subnet via radio
10 communication, wherein:

under the condition that said mobile terminal is connected to said first subnet, said first access router transmits a message W to instruct the execution of handover to said second subnet including said link local address of said second access router to said mobile
15 terminal.

31. A communication system, comprising a first access router belonging to a first subnet and a second access
20 router belonging to a second subnet, said first access router and said second access router being connected via IP network, and a mobile terminal is connected to said first subnet and said second subnet via radio communication, wherein:

25 under the condition that said mobile terminal is

connected to said first subnet, said first access router transmits a message W including said link local address of a default router in said second subnet and instructing the execution of handover to said second
5 subnet.

32. The communication system according to claim 30,
wherein said first access router is arranged to provide
information included in an RA message sent in said
10 second subnet by said second access router together with
said link local address of said second access router to
said mobile terminal.

33. The communication system according to claim 31,
15 wherein said first access router is arranged to provide
information included in an RA message sent in said
second subnet by said default router together with said
link local address of said default router to said mobile
terminal.

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34. The communication system according to claim 30 or
31, wherein said mobile terminal is arranged to refer to
said link local address when transmitting a packet to
outside of said second subnet after executing the
25 handover from said first subnet to said second subnet.

35. A mobile terminal in a communication system,
comprising a first access router belonging to a first
subnet, and a second access router belonging to a second
5 subnet different from said first subnet, said first
access router and said second access router being
connected via IP network, and connection to said first
subnet or said second subnet can be executed via radio
communication, wherein said mobile terminal comprises:
10 means for requesting a link local address of said
second access router in said second subnet to said first
access router under the condition being connected to
said first subnet when the handover is executed from
said first subnet to said second subnet; and
15 means for receiving said link local address of said
second access router from said first access router.
36. A mobile terminal in a communication system,
comprising a first access router belonging to a first
20 subnet, and a second access router belonging to a second
subnet different from said first subnet, said first
access router and said second access router being
connected via IP network, and connection to said first
subnet or said second subnet can be executed via radio
25 communication, wherein said mobile terminal comprises:

means for requesting a link local address of a default router in said second subnet to said first access router under the condition being connected to said first subnet when the handover is executed from
5 said first subnet to said second subnet; and means for receiving said link local address of said default router from said first access router.

37. The mobile terminal according to claim 35, wherein
10 there is provided means for receiving information included in an RA message sent in said second subnet by said second access router from said first access router.

38. The mobile terminal according to claim 36, wherein
15 there is provided means for receiving information included in an RA message sent in said second subnet by said default router from said first access router.

39. The mobile terminal according to claim 35 or 36,
20 wherein there is provided means to refer to said link local address when a packet is transmitted to outside of said second subnet after executing the handover from said first subnet to said second subnet.

25 40. The mobile terminal according to claim 35 or 36,

wherein there is provided means for requesting said link local address to said first access router when transmitting a message P to request information relating to said second access router.

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41. The mobile terminal according to claim 40, wherein there are provided:

means for adding information to request said link local address in said message P;

10 means for receiving a message Q including said link local address, which is a response message of said message P from said first access router; and
means for extracting said link local address from said message Q.

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42. The mobile terminal according to claim 40, wherein there are provided:

means for generating information to request said link local address different from said message P and for
20 transmitting it to said first access router;

means for receiving a notifying message different from the message Q, which is a response message of said message P, and said notifying message including said link local address from said first access router; and
25 means for extracting said link local address from

said notifying message.

43. The mobile terminal according to claim 40, wherein
there are provided:

5 means for adding information to request said link
local address in said message P;

means for receiving a notifying message different
from the message Q, which is a response message of said
message P, and said notifying message including said
link local address from said first access router; and

10 means for extracting said link local address from
said notifying message.

44. The mobile terminal according to claim 40, wherein
15 there are provided:

means for generating information to request said
link local address different from said message P and for
transmitting it to said first access router;

means for receiving a message Q including said link
20 local address, being a response message to said message
P, from said first access router; and

means for extracting said link local address from
said message Q.

25 45. The mobile terminal according to claim 35 or 36,

wherein there are provided:

means for receiving a message Q including said link local address, being a response message of said message P, from said first access router as a response thereto
5 after transmitting the message P to request information relating to said second access router; and

means for extracting said link local address from said message Q.

10 46. The mobile terminal according to claim 35 or 36,
wherein there are provided:

means for receiving said notifying message including said link local address, being a notifying message different from the message Q, which is a response
15 message of said message P, from said first access router as a response thereto after transmitting the message P to request information relating to said second access router; and

means for extracting said link local address from
20 said notifying message.

47. The mobile terminal according to claim 35 or 36,
wherein there is provided means for requesting said link local address to said first access router when
25 transmitting a message R to request to forward a packet

addressed to said mobile terminal to said second access router.

48. The mobile terminal according to claim 47, wherein
5 there are provided;

means for adding information to request said link local address in said message R;

means for receiving a message S including said link local address, which is a response message of said
10 message R, from said first access router; and

means for extracting said link local address from
said message S.

49. The mobile terminal according to claim 47, wherein
15 there are provided:

means for generating information to request said link local address different from said message R and for transmitting it to said first access router;

means for receiving said notifying message including
20 said link local address, being a notifying message different from the message S, which is a response message of said message R, from said first access router; and

means for extracting said link local address from
25 said notifying message.

50. The mobile terminal according to claim 47, wherein
there are provided:

means for adding information to request said link
5 local address in said message R;
means for receiving said notifying message including
said link local address, being a notifying message
different from the message S, which is a response
message of said message R, from said first access
10 router; and
means for extracting said link local address from
said notifying message.

51. The mobile terminal according to claim 47, wherein
15 there are provided:

means for generating information to request said
link local address different from said message R and for
transmitting it to said first access router;
means for receiving a message S including said link
20 local address, being a response message of said message
R, from said first access router; and
means for extracting said link local address from
said message S.

25 52. The mobile terminal according to claim 35 or 36,

wherein there are provided:

means for receiving a message S including said link local address, which is a response message of said message R, from said first access router as a response
5 after transmitting said message R; and
means for extracting said link local address from said message S.

53. The mobile terminal according to claim 35 or 36,
10 wherein there are provided:

means for receiving said notifying message including said link local address, being a message different from the message S, which is a response message of said message R, from said first access router as a response
15 after transmitting said message R; and
means for extracting said link local address from said notifying message.

54. A mobile terminal in a communication system,
20 comprising a first access router belonging to a first subnet, and a second access router belonging to a second subnet different from said first subnet, said first access router and said second access router, being connected via IP network, and connection to said first subnet or said second subnet can be executed via radio
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communication, wherein said mobile terminal comprises:

means for receiving a message W to instruct the execution of the handover to said second subnet from said first access router, said message including said link local address of said second access router.

55. A mobile terminal in a communication system, comprising a first access router belonging to a first subnet, and a second access router belonging to a second subnet different from said first subnet, said first access router and said second access router being connected via IP network, and connection to said first subnet or said second subnet can be executed via radio communication, wherein said mobile terminal comprises:

15 means for receiving a message W to instruct the execution of handover to said second subnet from said first access router, said message including said link local address of a default router in said second subnet.

20 56. The mobile terminal according to claim 54, wherein there is provided:

means for receiving information included in an RA message sent in said second subnet by said second access router from said first access router.

57. The mobile terminal according to claim 55, wherein there is provided means for receiving information included in an RA message sent in said second subnet by said default router from said first access router.

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58. The mobile terminal according to claim 54 or 55, wherein there is provided means for referring to said link local address when a packet is transmitted to outside of said second subnet after executing the
10 handover to said second subnet from said first subnet.

59. An access router in a communication system, comprising a first access router belonging to a first subnet and a second access router belonging to a second
15 subnet different from said first subnet, said first access router and said second access router being connected via IP network and can be connected to a mobile terminal via radio communication, wherein there are provided:

20 means for receiving a request of a link local address of said second access router in said second subnet from said mobile terminal connected to said first subnet and deciding the execution of handover to said second subnet;

25 means for acquiring said link local address of said

second access router; and

means for providing said link local address of said second access router to said mobile terminal.

- 5 60. An access router in a communication system,
comprising a first access router belonging to a first
subnet and a second access router belonging to a second
subnet different from said first subnet, said first
access router and said second access router being
10 connected via IP network and can be connected to a
mobile terminal via radio communication, wherein there
are provided:

means for receiving a request of a link local
address of a default router in said second subnet from
15 said mobile terminal connected to said first subnet and
deciding the execution of handover to said second
subnet;

means for acquiring said link local address of said
default router; and
20 means for providing said link local address of said
default router to said mobile terminal.

61. The access router according to claim 59, wherein
there is provided means for giving information included
25 in an RA message sent in said second subnet by said

second access router together with said link local address of said second access router to said mobile terminal.

- 5 62. The access router according to claim 60, wherein there is provided means for giving information included in an RA message sent in said second subnet by said default router together with said link local address of said default router to said mobile terminal.

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63. The access router according to claim 59 or 60, wherein there is provided means for receiving a request of said link local address from said mobile terminal when receiving a message P to request information

- 15 relating to said second access router from said mobile terminal.

64. The access router according to claim 63, wherein there are provided:

- 20 means for acquiring said link local address relating to a subnet specified by information in said message P in case information to request said link local address added in said message P is received as a request of said link local address from said mobile terminal; and
- 25 means for generating said message Q including said

link local address to said mobile terminal by incorporating said link local address in the message Q, which is a response message of said message P.

5 65. The access router according to claim 63, wherein there are provided:

means for acquiring said link local address relating to a subnet specified by at least one of information to request said link local address and information in said 10 message P received from said mobile terminal when information to request said link local address different from said message P is received as a request of said link local address from said mobile terminal; and

means for generating a notifying message including 15 said link local address by incorporating said link local address in a notifying message different from the message Q, which is a response message of said message P, and for transmitting said notifying message to said mobile terminal.

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66. The access router according to claim 63, wherein there are provided:

means for acquiring said link local address relating to a subnet specified by information in said message P 25 when information to request said link local address

- added in said message P is received as a request of said link local address from said mobile terminal; and means for generating said notifying message including said link local address by incorporating said 5 link local address in a notifying message different from the message Q, which is a response message of said message P, and for transmitting said notifying message to said mobile terminal.
- 10 67. The access router according to claim 63, wherein there are provided:
means for acquiring said link local address relating to a subnet specified by at least one of information to request said link local address and information in said 15 message P received from said mobile terminal when information to request said link local address different from said message P is received as a request of said link local address from said mobile terminal; and means for generating said message Q including said 20 link local address by incorporating said link local address in the message Q, which is a response message of said message P, and for transmitting said message Q to said mobile terminal.
- 25 68. The access router according to claim 59 or 60,

wherein there are provided:

means for acquiring said link local address relating to a subnet specified by information in said message P when the message P to request information relating to 5 said second access router is received from said mobile terminal; and

means for generating said message Q including said link local address by incorporating said link local address in the message Q, which is a response message of 10 said message P and for transmitting said message Q to said mobile terminal.

69. The access router according to claim 59 or 60, wherein there are provided:

15 means for acquiring said link local address relating to a subnet specified by information in said message P when the message P to request information relating to said second access router is received from said mobile terminal; and

20 means for generating said notifying message including said link local address by incorporating said link local address in the notifying message different from the message Q, which is a response message of said message P, and for transmitting said notifying message 25 to said mobile terminal.

70. The access router according to claim 59 or 60,
wherein there is provided means for receiving a request
of said link local address from said mobile terminal
5 when receiving the message R to request to forward a
packet addressed to the mobile terminal from said mobile
terminal to said second access router.

71. The access router according to claim 70, wherein
10 there are provided:

means for acquiring said link local address relating
to a subnet specified by at least one of information in
said message R, information of the message P to request
information relating to said second access router, and
15 information in said message P received from said mobile
terminal already before the receiving of said message R;
and

means for generating said message S including said
link local address by incorporating said link local
20 address in a message S, which is a response message of
said message R, and for transmitting said message S to
said mobile terminal.

72. The access router according to claim 70, wherein
25 there are provided:

means for acquiring said link local address relating to a subnet specified by at least one of information to request said link local address, information in said message R received from said mobile terminal, and

5 information of in the message P to request information relating to said second access router, and information in said message P received from said mobile terminal already before the receiving of said message R when information to request said link local address different

10 from said message R is received as a request of said link local address from said mobile terminal; and

means for generating a notifying message including said link local address by incorporating said link local address in the notifying message different from the

15 message S, which is a response message of said message R, and for transmitting said notifying message to said mobile terminal.

73. The access router according to claim 70, wherein

20 there are provided:

means for acquiring said link local address relating to a subnet specified by at least one of information in said message R, information in the message P to request information relating to said second access router, and

25 information in said message P received from said mobile

terminal already before the receiving of said message R when information to request said link local address added in said message R is received as a request of said link local address from said mobile terminal; and

5 means for generating said notifying message including said link local address by incorporating said link local address in a notifying message different from the message S, which is a response message of said message R, and for transmitting said notifying message
10 to said mobile terminal.

74. The access router according to claim 70, wherein there are provided:

means for acquiring said link local address relating
15 to a subnet specified by at least one of information to request said link local address, information in said message R received from said mobile terminal,
information in the message P to request information relating to said second access router, and information
20 in said message P received from said mobile terminal already before the receiving of said message R when information to request said link local address different from said message R is received as a request of said link local address from said mobile terminal; and
25 means for generating said message S including said

link local address by incorporating said link local address in the message S, which is a response message of said message R, and for transmitting said message S to said mobile terminal.

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75. The access router according to claim 59 or 60, wherein there are provided:

means for acquiring said link local address relating to a subnet specified by at least one of information in
10 said message R, and information in the message P to request information relating to said second access router, and information in the message P received from said mobile terminal already before the receiving of said message R when said message R is received from said
15 mobile terminal; and

means for generating said message S including said link local address by incorporating said link local address in the message S, which is a response message of said message R, and for transmitting said message S to
20 said mobile terminal.

76. The access router according to claim 59 or 60, wherein there are provided:

means for acquiring said link local address relating to a subnet specified by at least one of information in
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said message R, information in the message P to request information relating to said second access router, and information in said message P received from said mobile terminal already before the receiving of said message R

- 5 when said message R is received from said mobile terminal; and

means for generating said notifying message including said link local address by incorporating said link local address in a notifying message different from 10 the message S, which is a response message of said message R, and for transmitting said notifying message to said mobile terminal.

77. The access router according to claim 71, wherein
15 there is provided means for requesting said link local address to said second access router when transmitting a message T to request the initiation of the handover processing relating to said mobile terminal.

20 78. The access router according to claim 72, wherein there is provided means for requesting said link local address to said second access router when transmitting a message T to request the initiation of the handover processing relating to said mobile terminal.

79. The access router according to claim 77, wherein there are provided:

means for adding information to instruct a request of said link local address in said message T;

5 means for receiving a message U including said link local address, which is a response message of said message T, from said second access router; and

means for extracting said link local address from said message U.

10

80. The access router according to claim 77, wherein there are provided:

means for generating information to request said link local address different from said message T, and
15 for transmitting it to said second access router;

means for receiving a notifying message including said link local address from said second access router; and

means for extracting said link local address from
20 said notifying message.

81. The access router according to claim 77, wherein there are provided:

means for adding information to instruct the request
25 of said link local address in said message T;

means for receiving a notifying message including
said link local address from said second access router;
and

means for extracting said link local address from
5 said notifying message.

82. The access router according to claim 77, wherein
there are provided:

means for generating information to request said
10 link local address different from said message T and for
transmitting it to said second access router;

means for receiving a message U including said link
local address, which is a response message of said
message T, from said second access router; and

15 means for extracting said link local address from
said message U.

83. The access router according to claim 71, wherein
there are provided:

20 means for receiving the message U, including said
link local address and being a response message of said
message T from said second access router as a response
after transmitting said message T; and

means for extracting said link local address from
25 said message U.

84. The access router according to claim 72, wherein
there are provided:

means for receiving a message U, including said link
5 local address and being a response message of said
message T, from said second access router as a response
after transmitting said message T; and

means for extracting said link local address from
said message U.

10

85. The access router according to claim 71, wherein
there are provided:

means for receiving a notifying message including
said link local address from said access router as a
15 response after transmitting said message T; and

means for extracting said link local address from
said notifying message.

86. The access router according to claim 72, wherein
20 there are provided:

means for receiving a notifying message including
said link local address from said access router as a
response after transmitting said message T; and

means for extracting said link local address from
25 said notifying message.

87. An access router in a communication system, comprising a first access router belonging to a first subnet and a second access router belonging to a second subnet different from said first subnet, said first access router and said second access router being connected via IP network and can be connected to a mobile terminal via radio communication, wherein there are provided:

10 means for receiving a link local address of said second access router in said second subnet from said mobile terminal connected to said first subnet and deciding the execution of handover to said second subnet;

15 means for acquiring said link local address of said second access router; and

means for transmitting a message including said link local address of said second access router and instructing the execution of handover to said second subnet, to said mobile terminal.

20
88. An access router in a communication system, comprising a first access router belonging to a first subnet and a second access router belonging to a second subnet different from said first subnet, said first

access router and said second access router being connected via IP network and can be connected to a mobile terminal via radio communication, wherein there are provided:

- 5 means for receiving a request of a link local address of a default router in said second subnet from said mobile terminal connected to said first subnet and deciding the execution of handover to said second subnet;
- 10 means for acquiring said link local address of said default router; and
 - means for transmitting a message W including said link local address of said second access router and instructing the execution of handover to said second subnet, to said mobile terminal.
- 15

89. The access router according to claim 87, wherein there is provided means for giving information included in an RA message sent in said second subnet by said second access router together with said link local address of said second access router to said mobile terminal.
- 20

90. The access router according to claim 88, wherein 25 there is provided means for giving information included

in an RA message sent in said second subnet by said default router together with said link local address of said default router to said mobile terminal.

- 5 91. An access router in a communication system, comprising a first access router belonging to a first subnet and a second access router belonging to a second subnet different from said first subnet, said first access router and said second access router being
10 connected via IP network and can be connected to a mobile terminal via radio communication, wherein there is provided:

means for receiving a request of said link local address of said second access router from said first
15 access router when receiving a message T to request the initiation of the handover processing relating to said mobile terminal from said first access router.

92. An access router in a communication system,
20 comprising a first access router belonging to a first subnet and a second access router belonging to a second subnet different from said first subnet, said first access router and said second access router being connected via IP network and can be connected to a
25 mobile terminal via radio communication, wherein there

is provided:

means for receiving a request of said link local address of a default router in said second subnet from said first access router when receiving a message T to
5 request the initiation of the handover processing relating to said mobile terminal from said first access router.

93. The access router according to claim 91, wherein
10 said second access router provides information included in RA message sent in said second subnet by said second access router together with said link local address of said access router to said first access router.

15 94. The access router according to claim 92, wherein said default router provides information included in RA message sent in said second subnet by said default router together with said link local address of said default router to said first access router.

20

95. The access router according to claim 91 or 92, wherein there are provided:

means for receiving information to instruct a request of said link local address added in said message
25 T as a request of said link local address from said

first access router;

means for acquiring said link local address when
said message T added with information to instruct a
request of said link local address is received from said
5 first access router; and

means for generating said message U including said
link local address by incorporating said link local
address in the message U, which is a response message of
said message T, and for transmitting said message U to
10 said first access router.

96. The access router according to claim 91 or 92,
wherein there are provided:

means for receiving information to request said link
15 local address different from said message T as a request
of said link local address from said first access
router;

means for acquiring said link local address when
information to request said link local address is
20 received from said first access router; and

means for generating a notifying message including
said link local address by incorporating said link local
address in a notifying message different from the
message U, which is a response message of said message T,
25 and for transmitting said notifying message to said

first access router.

97. The access router according to claim 91 or 92,
wherein there are provided:

5 means for receiving information to request said link
local address added in said message T as a request of
said link local address from said first access router;

means for acquiring said link local address when
said message T added with information to request said
10 link local address is received from said first access
router; and

means for generating a notifying message including
said link local address by incorporating said link local
address in a notifying message different from the
15 message U, which is a response message to said message T,
and for transmitting said notifying message to said
first access router.

98. The access router according to claim 91 or 92,
20 wherein there are provided:

means for receiving information to request said link
local address different from said message T as a request
of said link local address from said first access
router;

25 means for acquiring said link local address when

information to request said link local address is received from said first access router; and

means for generating said message U including said link local address by incorporating said link local
5 address in the message U, which is a response message of said message T, and for transmitting said message U to said first access router.

99. The access router according to claim 91 or 92,
10 wherein there are provided:

means for acquiring said link local address when said message T is received from said first access router; and

means for generating said message U including said link local address by incorporating said link local address in the message U, which is a response message of
15 said message T, and for transmitting said message U to said first access router.

20 100. The access router according to claim 91 or 92,
wherein there are provided:

means for acquiring said link local address when said message T is received from said first access router; and

25 means for generating a notifying message including

said link local address by incorporating said link local address in a notifying message different from the message U, which is a response message of said message T, and for transmitting said notifying message to said 5 first access router.